Bids received until July 12, 1915.

County Highway Tunnel

OFFICE OF THE CONTROLLER OF ALLEGHENY COUNTY.
Pittsburgh, Pa., June 1st, 1915.

Sealed proposals will be received at this office until 1:30 o'clock P.M., Monday, July 12th, 1915, and will at that time be publicly opened by the County Commissioners, for the construction of a tunnel and the approaches thereto, known as "County Highway Tunnel No. 1," extending from the southerly side of East Carson Street near Third Street, Pittsburgh, in a southerly direction to a point on Warrington Avenue, near Boggs Avenue, Pittsburgh, Pa. The proposals submitted must be on the blank form of proposals which are bound with the contract, specifications and information for bidders, and must be addressed to the County Commissioners of Allegheny County, Pennsylvania, and deposited with the County Controller, marked "Proposal for County Highway Tunnel No. 1." Proposals must be accompanied by a certified check in the sum of One Hundred Fifty Thousand ($150,000.00) Dollars, made payable to the Commissioners of Allegheny County, to be returned to the unsuccessful bidders three days after the awarding of the contract. Within ten (10) days after receiving final notice of the awarding of the contract, the successful bidder will be required to execute the contract and furnish a proper surety bond, satisfactory to and to be approved by the County Commissioners, in the sum of Fifty (50%) per centum of the amount of the contract price, conditioned for the faithful performance of all the terms and provisions of the contract.

Copies of the form of proposal, contract and information for bidders and copies of the plans and specifications may be obtained at the office of A. D. Neeld, Consulting Engineer for the County of Allegheny, at No. 237 Fourth Avenue, Pittsburgh, and at the office of the County Commissioners, Court House, Pittsburgh, Pa., on and after June 7th, 1915. Those desiring to bid may have plans and specifications upon the deposit of Twenty-five ($25.00) Dollars, which will be refunded if said plans and specifications are returned in good condition within ten (10) days after the bids have been received and acted upon by the County Commissioners.

The County Commissioners reserve the right to reject any and all bids.

HYATT M. CRIBBS,
County Controller for the County of Allegheny.

Bids received until June 29, 1915.

Power House Improvements

Middletown, N. Y.

Sealed proposals for additions and alterations to Power House for Power House Equipment, construction, heating, plumbing and electric work at the Middletown State Homeopathic Hospital, Middletown, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2:30 o'clock P.M. on Tuesday, June 29, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the following amounts: For construction work, $250.00; heating work, $4,500.00; plumbing work, $100.00; electric work, $175.00. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty (50%) per cent. of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of specifications Nos. 2275, 2261, 2262 and 2263. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Middletown State Homeopathic Hospital, Middletown, N. Y., at the New York office of the Department of Architecture, Room 1224 Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposals may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00, made payable to the State of New York for each set of plans and specifications, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

E. S. ELWOOD, Secy., State Hospital Commission.
Dated Albany, N. Y., June 7, 1915.

PROPOSALS FOR LEVEE WORK—Mississippi River Commission, 1st & 2d Districts, Room 20, Custom House, Memphis, Tenn., June 4, 1915.—Sealed proposals for constructing about 700,000 cubic yards of levee work in the Lower St. Francis Levee District will be received at this office until 11 a.m., June 26, 1915, and then publicly opened. Information upon application. E. M. MARKHAM, Maj., Engrs.

Bids received until June 24, 1915.

Main Channel Excavation

THE SANITARY DISTRICT OF CHICAGO.
TO CONTRACTORS.

Sealed proposals indorsed "Proposals for Main Channel Excavation" will be received by the Clerk of The Sanitary District of Chicago at the office of said District, Room No. 700, 910 South Michigan Avenue, Chicago, Illinois, until 12 M., standard time, June 24, 1915, and will be publicly opened by the Board of Trustees of said Sanitary District at a meeting to be held on that day, or at the first meeting thereafter.

The work for which said tenders are invited consists of the excavation of the North Bank of part of the Main Channel of the Sanitary District of Chicago, in the City of Chicago, the Township of Stickney and the Township of Lyons, in the County of Cook, State of Illinois.

The approximate quantity of excavation which will be used in comparison of proposals is 175,000 cubic yards.

Proposals for the work herein mentioned may be made under two alternatives: Alternative I includes disposing of excavated material upon the berm adjacent to the work, or removing same from the site of the work; Alternative II includes removing all excavated material from the site of the work. The Sanitary District may award a contract under either alternative, as it may elect.

All proposals must be made upon blank forms of proposal furnished by said Sanitary District, and shall be made in accordance with and to conform to all the terms and conditions set forth in "Requirements for Bidding and Instructions to Bidders," attached thereto. A deposit of Five Thousand Dollars ($5,000.00) is required with each proposal submitted.

Specifications, contract, forms of proposal and plans may be obtained upon the deposit of Five Dollars ($5.00) at the office of the said Sanitary District, which sum so deposited will be refunded if said plans and specifications are returned in good order on or before July 24, 1915.

The said Board of Trustees reserves the right to reject any or all proposals.

THE SANITARY DISTRICT OF CHICAGO,
By THOMAS A. SMYTH,
President of its Board of Trustees.

Attest: JOHN McGILLEN, Clerk.
Chicago, June 7, 1915.

Bids received until June 24, 1915.

North Shore Channel Improvement

THE SANITARY DISTRICT OF CHICAGO.
TO CONTRACTORS.

Sealed proposals indorsed "Proposals for North Shore Channel Improvement" will be received by the Clerk of The Sanitary District of Chicago at the office of said District, Room No. 700, 910 South Michigan Avenue, Chicago, Ill., until 12 M., standard time, June 24, 1915, and will be publicly opened by the Board of Trustees of said Sanitary District at a meeting to be held on that day, or at the first meeting thereafter.

The work for which said proposals are invited consists of the excavation of side slopes and construction of pile and timber protection on the North Shore Channel of the Sanitary District, in the City of Evanston and the Village of Wilmette, in the County of Cook, State of Illinois.

The following approximate items and quantities will be used in comparison of proposals:

(a) 150,000 cubic yards of Excavation.
(b) 9,500 lineal feet of Piles.
(c) 40,000 feet, board measure, of Timber.

All proposals must be made upon blank forms of proposal furnished by said Sanitary District, and shall be made in accordance with and to conform to all the terms and conditions set forth in "Requirements for Bidding and Instructions to Bidders," attached thereto. A deposit of Five Thousand Dollars ($5,000.00) is required with each proposal submitted.

Specifications, contract, forms of proposal and plans may be obtained upon the deposit of Five Dollars ($5.00) at the office of the said Sanitary District, which sum so deposited will be refunded if said plans and specifications are returned in good order on or before July 24, 1915.

The said Board of Trustees reserves the right to reject any or all proposals.

THE SANITARY DISTRICT OF CHICAGO,
By THOMAS A. SMYTH,
President of its Board of Trustees.

Attest: JOHN McGILLEN, Clerk.
Chicago, June 7, 1915.

Bids received until June 24, 1915.

Calumet Intercepting Sewer

CONTRACT NO. 2
THE SANITARY DISTRICT OF CHICAGO.
TO CONTRACTORS.

Sealed proposals, endorsed "Proposals for Calumet Intercepting Sewer, Contract No. 2," will be received by the Clerk of The Sanitary District of Chicago at the office of said District, 700, 910 South Michigan Avenue, Chicago, Illinois, until 12 M., standard time, on Thursday, June 24, 1915, and will be publicly opened by the Board of Trustees of said District at a meeting to be held that day or at the first meeting thereafter.

The work for which said tenders are invited under Contract No. 2 includes the construction of an intercepting sewer in open cut from the intersection of Baltimore Ave. and 97th St., along 97th St. to Torrence Ave., and south on Torrence Ave. to 99th St.

The entire work is located in the City of Chicago, County of Cook, State of Illinois.

The work covered includes excavation, backfilling, disposal of surplus excavation, concrete, reinforcing steel, brickwork, iron castings, structural steel, piling, sheeting, bracing, vitrified tile pipe and other material as specified.

All bids must be made upon blank forms of proposal furnished by the Sanitary District, and shall be made in accordance with and to conform to the terms and conditions set forth in "Requirements for Bidding and Instructions to Bidders," attached thereto.

Specifications, forms of proposal and plans may be obtained upon deposit of Ten Dollars ($10.00) at the office of said Sanitary District, which sum so deposited will be refunded if said plans and specifications are returned in good condition within thirty days following the opening of bids.

The Board of Trustees reserves the right to reject any or all proposals.

THE SANITARY DISTRICT OF CHICAGO.
By THOMAS A. SMYTH,
President of its Board of Trustees.

Attest: JOHN McGILLEN, Clerk.
Chicago, June 1, 1915.

Bids received until July 1, 1915.

Proposals for Street Paving

Lebanon, Penn., June 15, 1915.

Sealed proposals will be received by the Mayor and Council of the City of Lebanon, Pa., until 5 o'clock P.M. on the 1st day of July, 1915, for furnishing all materials and doing all work necessary for the complete construction of about 4,000 square yards of street paving on 8th Street between the N. side of the tracks of the Philadelphia & Reading Railroad Co. and the N. side of Lehman Street. Separate proposals for the paving of 9th Street from the S. side of Chestnut Street to near the S. rail of the Philadelphia & Reading Railroad Co.'s tracks, comprising about 12,400 square yards of pavement, and a separate proposal on Lehman Street from the E. side of 4th Street to the W. side of 9th Street, comprising about 8,300 square yards of pavement. The above quantities are approximate only.

Specifications, forms of proposals, envelopes, etc., may be obtained from the office of the City Engineer. A certified check on a solvent bank must accompany each bid. Three hundred and sixty dollars for the 8th Street, Eleven hundred dollars for the 9th Street and Seven hundred and fifty dollars for the Lehman Street bid. All checks must be drawn in favor of the City of Lebanon, Pa. The payments for the cost of paving and curbing the said highways shall be from amounts to be collected by the City Treasurer from property owners whose land fronts or abuts on said highways upon the basis authorized, and that the City of Lebanon shall under no circumstances be held responsible for the payment of any part of the cost of said improvements except as to the cost of paving intersections of said streets and alleys and the paving or curbing in front of properties exempt by law from the paying of said improvements.

The right to reject any or all bids or parts of bids is hereby reserved. Address communications to

T. R. CROWELL, City Engineer.

Attest: DAN M. SHARP, City Clerk.

U. S. ENGINEER OFFICE, Room 802, Army Building, 39 Whitehall Street, New York City.—Sealed proposals for dredging in Hackensack River, N. J., and Channel north of Shooters Island, N. Y. and N. J., will be received here until 12 M., July 15, 1915, and then opened. Bids for one or both of these works will be considered. Information on application.

Bids received until July 7, 1915.

Pumps on Floats

Sealed Bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 A.M., on Wednesday, July 7, 1915, for Contract 140, for furnishing, delivering and erecting at Shafts 11 and 21 of the City tunnel of the Catskill aqueduct in the City of New York, drainage equipment for unwatering the tunnel and its shafts.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, and contract drawings can be obtained at the above address, at the office of the Secretary, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Principal Assistant Engineer at the above address.

CHARLES STRAUSS, President,
CHARLES N. CHADWICK,
JOHN F. GALVIN,
Commissioners of the Board of Water Supply.
W. BRUCE COBB, Secretary.

Bids received until June 29, 1915.

Sewer Construction

Columbus, Ohio.

Bids will be received by Geo. A. Borden, Director of Public Service, until 12 o'clock noon, Central Time, Tuesday, June 29, 1915, for construction of

South Side Storm Sewer

Sizes 123" to 12"; approximately 5 miles; about 400 feet in tunnel; average cuts from 7 to 17 feet; estimated cost $250,000.00.

Maryland Avenue Storm Sewer

Sizes 84" to 30"; approximately 1.6 miles, average cuts from 6 to 16 feet; estimated cost $100,000.

Plans and specifications from Henry Maetzel, Chief Engineer, City Hall; $5.00 deposit.

Bids received until July 21, 1915.

Reinforced Concrete Buildings

New Orleans, La.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans at their office, Suite 200, New Orleans Court Building, until July 21, 1915, at 2 o'clock P.M., and then publicly opened, for the construction of reinforced-concrete buildings for the Cotton Warehouses and Terminal, including the two-story Wharf House, about 120 feet by 2000 feet, Warehouse "E" about 150 feet by 580 feet, with their attached runways and appurtenances, located on the Mississippi River near Valence Street, in New Orleans.

A deposit of $25,000 in cash or certified check is required with proposal. Bond of $360,000 required with contract.

Payments monthly to the extent of 90% of the Engineers' estimate of work accomplished, including allowance for a reasonable stock of material.

On and after June 10, 1915, plans and specifications will be on file at the office of Ford, Bacon & Davis, No. 921 Canal Street, New Orleans, La., by whom full sets will be furnished to prospective bidders, on deposit of $100, which will be refunded to depositors who submit proposals and return sets in good condition. To depositors who do not submit proposals $80.00 will be refunded on return of the set in good condition.

The right is reserved to reject any and all bids and to waive informalities.

(Signed) ERNEST M. LOEB, President.

Bids received until July 12, 1915.

Water-Works Pump

Saltsburg, Pa.

Proposals will be received by the Borough of Saltsburg, Pa., for one Water-Works Pump, 500,000 gallons capacity in 24 hours, until July 12th, 1915.

Specification from

ROBT. H. WILSON,
Chairman, Water Committee.

OFFICE OF THE COMMISSIONERS, D. C., June 14, 1915.—Sealed Proposals will be received at this office, Room 509 District Building, until 2 o'clock P.M., on June 21, 1915, for the construction of Sewers in the District of Columbia, involving the construction of 1,700 linear feet of trunk sewer 4 foot 6 inch diameter; also 7,800 linear feet of pipe sewers, 10 inch to 21 inch diameter. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

Bids received until June 28, 1915.

Storm Sewer System

Kirksville, Mo.

Sealed proposals on blanks furnished by the City and addressed to the Mayor and City Council, Kirksville, Mo., will be received until 7 o'clock P.M., June 28, 1915, for furnishing all material and labor for the construction of a system of storm sewers in Joint Storm Sewer District Number Three of said City, as per plans and specifications adopted by them, as follows:

Approximately 257 lineal feet of 36-inch, 640 feet of 30-inch, 485 feet of 24-inch, 540 feet of 18-inch, 595 feet of 15-inch, 565 feet of 12-inch, 600 ft. of 10-inch storm sewer with all necessary manholes, catch basins and other appurtenances.

Each bid must be accompanied by a certified check for $600 made payable to the Mayor and City Council.

Plans and specifications may be seen at the office of the City Clerk or of the Engineer.

C. E. MURRELL, Mayor.
R. M. MILLER.
THOMAS RAINEY.

O. D. McKASSON, City Clerk.
C. V. DOWNING, Engineer.

Bids received until June 28, 1915.

Water-Works Improvements

Borough of Media, Penn.

Sealed bids will be received by the Water Committee of Media, Delaware County, Penn., up to 3 o'clock, June 28th, 1915, for the following work:

2,000,000 gallon settling basin with reinforced-concrete retaining walls, 250 Hp. water tube boiler, wash water standpipe, 20 feet in diameter, 15 feet high, foundations, pipes and accessories.

Plans and specifications may be obtained from the Consulting Engineer, Mr. J. W. Ledoux, Chief Engineer of the American Pipe and Construction Company, 112 North Broad Street, Philadelphia.

M. C. MICHENER, Chairman Water Committee.

Steel Viaducts

The Siamese Royal Railway Department invites bids for three steel viaducts. Specifications and drawings may be obtained from the Siamese Legation, Gloucester, Mass., on payment of fee of four dollars per set.

DEPARTMENT OF THE INTERIOR, U. S. RECLAMATION SERVICE, Washington, D. C., June 12, 1915.—Sealed proposals will be received at the office of the United States Reclamation Service, Provo, Utah, until 2 o'clock P.M., July 15, 1915, for construction involving about 50,000 cubic yards of canal excavation, 8,000 cubic yards of rolled embankment, 3,000 cubic yards of excavation for structures, 950 cubic yards of reinforced concrete, and 525,000 square feet of canal lining. The work is located near Goshen, Utah, on the Tintic Branch of the Denver & Rio Grande Railroad. For particulars address the United States Reclamation Service, Provo, Utah, or Washington, D. C. MORRIS BIEN, Acting Director.

PROPOSALS FOR COAL.—U. S. Engineer Office, Wilmington, N. C.—Sealed proposals will be received here until 12 M., June 28, 1915, and then opened for furnishing about 13,000 tons of bituminous coal. Further information on application.

U. S. ENGINEER OFFICE, Room 707, Army Building, 39 Whitehall St., New York, N. Y.—Sealed proposals will be received here until 12 M., June 28, 1915, and then opened, for dredging in Newtown Creek, N. Y. Further information on application.

U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich.—Sealed proposals for furnishing and delivering at Sault Ste. Marie, Michigan, about 325 tons of steel, etc., for construction of Fourth Lock, will be received at this office until 12 noon, June 30, 1915, and then publicly opened. Information on application.

U. S. ENGINEER OFFICE, Room 305 Southern Building, Washington, D. C., May 27, 1915.—Sealed proposals for furnishing and delivering 300 tons, 25% more or less, Sulphate of Alumina will be received here until 12 M., June 26, 1915, and then publicly opened. Information on application.

PROPOSALS FOR REPAIRS, SOUTH DOCK, ETC.—Office Quartermaster, West Point, N. Y.—Sealed proposals will be received here until 12 M., June 30, 1915, and then opened, for reconstruction and repairs to South Dock and Ferry Slip. Further information application.

U. S. ENGINEER OFFICE, Newport, R. I., May 29, 1915.—Sealed proposals for rebuilding basin walls and repairing breakwaters and harbor walls at harbor at Block Island, R. I., will be received here until 12 o'clock noon, June 29, 1915, and then publicly opened. Information on application. JOHN MILLIS, Col., Engrs.

Bids received until July 2, 1915.

Road Repairs

Belvidere, N. J.

Sealed bids or proposals will be received by a committee of the Board of Chosen Freeholders of the County of Warren at the Court House in Belvidere, N. J., on Friday, July 2, 1915, at 11:45 A.M., for surface treatment of 194,000 square yards of the County Highways in Warren County, N. J., also for repairs to the macadam road leading from Hackettstown to Allamuchy.

Specifications for said work may be seen at the office of F. W. Salmon, County Engineer, Netcong, N. J., at the Union Square Hotel, Phillipsburg, N. J., and at the American House, Hackettstown, N. J., where blank forms for bids (which must be used) may be procured.

Each bid must be accompanied by a certified check made payable to the Director of the Board of Chosen Freeholders in the sum of Five Hundred Dollars ($500.00) to guarantee the proper execution of contract and bond by the successful bidder on demand.

The right is reserved to reject any or all bids.

Bids will be received at the time named and not before and not after.

J. R. THATCHER,
Director Board Chosen Freeholders.

Bids received until June 28, 1915.

Concrete Bridge

Rockford, Ill.

Sealed proposals will be received until 1:30 o'clock P.M., June 28, 1915, by the Chairman of the Street and Alley Committee of the City Council of the City of Rockford for furnishing material and constructing a concrete bridge over Keith Creek at Kishwaukee Street, estimated cost $13,000.00. All in accordance with plans and specifications which will be furnished by the City Engineer upon request. The City reserves the right to reject any or all bids.

H. J. GALLAGHER,
Chairman Street and Alley Committee.

Barge Canal Contract to Sub-Let

Mechanicville, N. Y.

Bid wanted on construction of approach wall to Lock No. 3, Mechanicville, New York, Barge Canal Contract No. 72A. Work will be let under subcontract. Full information given on request. JAMES STEWART & CO., INC., 30 Church St., New York, N. Y.

SEALED PROPOSALS will be received at the Office of the Lighthouse Inspector, Charleston, S. C., until 12 o'clock noon, July 15, 1915, and then opened, for furnishing all materials, labor and constructing a creosoted timber wharf at the site of the new Lighthouse Depot on the Ashley River at Charleston, S. C. A deposit of $5.00 will be required for each set of plans and specifications. Blank proposals and particulars may be obtained by addressing the Lighthouse Inspector, Charleston, S. C.

PROPOSALS FOR RIPRAP STONE—U. S. Engineer Office, Philadelphia, Pa.—Sealed proposals will be received here until 12 noon, July 8, 1915, and then opened, for furnishing and placing riprap in Delaware River at Artificial Island. Further information on application.

SEALED PROPOSALS will be received at the Office of the Lighthouse Inspector, Tompkinsville, N. Y., until 2 o'clock p.m., July 9, 1915, and then opened, for furnishing labor and materials for erecting a reinforced-concrete carpenter shop at General Lighthouse Depot, Tompkinsville, N. Y. Blank proposals and particulars may be had by addressing the above office.

PROPOSALS FOR AIR-COMPRESSOR PLANT—U. S. Engineer Office, Pittsburgh, Pa.—Sealed proposals for furnishing and installing a water-power driven air-compressor plant, at Dam No. 10, Ohio River, will be received at this office until 12 M. (Eastern Standard Time), June 30, 1915, and then publicly opened. Information on application.

U. S. ENGINEER OFFICE, Savannah, Ga., May 21, 1915.—Sealed proposals for repairs to bank protection of Savannah River at Augusta, Ga., will be received at this office until 12 noon (Eastern Standard Time), June 21, 1915, and then publicly opened. Information on application. W. C. LANGFITT, Colonel, Engineers.

U. S. ENGINEER OFFICE, Room 707, Army Building, 39 Whitehall St., New York, N. Y.—Sealed proposals will be received here until 12 M., June 25, 1915, and then opened, for furnishing and placing riprap and repairing sea wall at Governors Island, N. Y. Further information on application.

PROPOSALS FOR CONCRETE SUPERSTRUCTURE.—U. S. Engineer Office, Buffalo, N. Y.—Sealed proposals will be received here until 11 a.m., June 23, 1915, and then opened, for construction of concrete superstructure on outer breakwater at Oswego Harbor, N. Y. Further information on application.

U. S. ENGINEER OFFICE, 540 Federal Building, Buffalo, N. Y., May 19, 1915.—Sealed proposals for construction of concrete superstructure on north pier, Erie Harbor, Pa., will be received at this office until 11 a.m., June 19, 1915, and then publicly opened. Information on application. L. V. FRAZIER, Captain, Engineers.

PROPOSALS FOR STRUCTURAL STEEL and Accessory Parts for Shed on Pier No. 7.—Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10:30 a.m., July 12, 1915, at which time they will be opened in public, for furnishing or furnishing and erecting the above-mentioned articles. Blanks and general information relating to this Circular (No. 937) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State St., New York City; 614 Whitney-Central Bldg., New Orleans, La., and Fort Mason, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburgh, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma, Wash. —F. C. BOGGS, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

Classified Advertising

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, 35, technical school and 12 years' broad experience; New York interview. P. W. 326, Eng. News.

MECHANICAL ENGINEER, 31, technical man with three years' shop training; six years' experience laying out manufacturing plants; specialist on production methods and labor-saving devices, arrangement of machine tools and manufacturing departments, savings in power, handling of material and increase of production; best of references from past employers and clients; can give part or whole time; New York or eastern Jersey preferred; good chance to get the man you need. P. W. 383, Eng. News.

Civil Engineers

WATER-SUPPLY, water power, dams, sewers; responsible charge, construction and design; present engagement soon terminates; age 34; Assoc. M. Am. Soc. C. E. P. W. 224, Eng. News.

CIVIL ENGINEER, age 34, graduate, Assoc. M. Am. Soc. C. E., experienced in the design and construction of reinforced concrete structures and who has traveled extensively and is able to meet people, desires position of responsibility. P. W. 354, Eng. News.

CIVIL ENGINEER, technical graduate, Assoc. M. Am. Soc. C. E.; 15 years' experience hydraulic construction, municipal work, management and construction of water-works; business experience; $3600; now employed. P. W. 345, Eng. News.

HIGHWAY ENGINEER, technical graduate; four years' experience, two years responsible charge, New York State and tropics; available at once; moderate salary. P. W. 344, Eng. News.

CIVIL ENGINEER; 28, single, American, technical, railroad location, design and construction, hydro-electric, water works, subways, tunnels, reports and estimates; tropics and north, speak Spanish. P. W. 261, Eng. News.

CIVIL ENGINEER, graduate, Assoc. M. Am. Soc. C. E., 15 years' experience, responsible charge general construction, railroads and municipal improvements, surveys, expert computer, have instruments. P. W. 284, Eng. News.

CIVIL ENGINEER, Assoc. Mem. A. S. C. E., 18 years' experience, municipal roads, bridges, reinforced concrete. Complete outfit, both office and field. References. P. W. 329, Eng. News, Chicago.

CIVIL ENGINEER, graduate with high reference, twenty years' experience surveys, design, construction, railways, bridges, tunnels, foundations and hydraulic works open to engagement. P. W. 307, Eng. News.

GRADUATE CIVIL ENGINEER, just finishing his M. S. degree, desires position; location immaterial; salary secondary consideration. P. W. 342, Eng. News.

CIVIL ENGINEER, technical graduate, desires position; 11 years' experience steam and electric railway maintenance and construction, reinforced-concrete bridge construction, large drainage canal work, difficult swamp drainage surveys; speaks and writes Spanish fluently; references; location immaterial. P. W. 360, Eng. News.

GRADUATE CIVIL ENGINEER, 20 years' experience in charge irrigation, drainage, hydraulic and railroad construction, also valuation engineer public utilities, now finishing important work, wishes employment. P. W. 272, Eng. News.

CIVIL ENGINEER, college graduate; 15 years' general municipal consulting engineering experience; water works a specialty; design and construction, earth, masonry, concrete, steel; reports, appraisals; excellent references; minimum salary, $150. P. W. 369, Eng. News.

A CIVIL ENGINEER who for the past four years has been in charge of making the transmission line and flowage land surveys and maps for a big water power development desires engagement on similar work after July 1. P. W. 380, Eng. News, Chicago.

CIVIL ENGINEER, technical training, four years' experience on highway and city work; desires position on either. Joseph R. Murphy, Charlotte, Tenn.

CONSTRUCTION CIVIL ENGINEER; six years' practical experience as erector on steel and industrial plant work, buildings, furnaces, machinery, steel, brick, concrete and excavation, wants to make change. P. W. 389, Eng. News.

CIVIL ENGINEER, graduate; six years' experience with engineers and contractors; railroads, sewers, power plants, subways. P. W. 398, Eng. News.

CIVIL ENGINEERING student, good technical knowledge, desires minor position in surveying corporation. P. W. 394, Eng. News.

Bridge and Structural

STRUCTURAL ENGINEER having successfully filled positions as designer, draftsman in charge, and assistant engineer, open for engagement. Can handle correspondence, some experience selling, fair knowledge shop and erection costs. Age 34. Reference from present employer covering 12 years. Could invest small amount. P. W. 332, Eng. News.

STRUCTURAL ENGINEER, Experienced designer, good executive, accustomed to handling men desires position as engineer or in charge of work; excellent references from past and present employers. P. W. 316, Eng. News.

STRUCTURAL CHECKER; 15 years detailing, designing and inspection; can take charge of work. P. W. 364, Eng. News.

BRIDGE AND STRUCTURAL ENGINEER, Cornell University graduate, with long experience, is open for engagement; would teach. P. W. 382, Eng. News.

STRUCTURAL CHECKER, ten years' experience, bridges and buildings. Capable taking charge. Moderate salary. P. W. 388, Eng. News.

STRUCTURAL and ARCHITECTURAL ENGINEER. Experienced as engineer of construction and maintenance of factories of largest type. Experienced designer all kinds of building, factory, and bridge work. Good executive. Desires change of location. P. W. 397, Eng. News.

Surveyors

INSTRUMENTMAN; year experience, field and office; three years at Mass. Inst. Tech. besides summer engineering camp. P. W. 365, Eng. News.

RODMAN, 21, single, and does not use whisky nor cigarettes, wants job immediately. Location immaterial, two years on railroad location, construction and valuation. Best references. Loy Golden, Newman, Ga.

TRANSITMAN AND DRAFTSMAN, twelve years' experience, topographical, municipal, one year mechanical drafting. P. W. 393, Eng. News.

Draftsmen

FIRST-CLASS DRAFTSMAN and designer, cranes, hoisting engines, shovel work, temporary or permanent. P. W. 340, Eng. News.

MECHANICAL DRAFTSMAN; 4 years' experience; technical education, moderate salary. P. W. 391, Eng. News.

ARCHITECTURAL DRAFTSMAN; 25 years old, technical graduate, 3 years' experience with engineer, desires work in New York. P. W. 392, Eng. News.

LADY desires position as draftsman in engineer's office; salary moderate; location anywhere. P. W. 378, Eng. News, Chicago.

Superintendents, Etc.

SUPERINTENDENT desires position; 15 years' experience reservoir and dam construction, tunnel, trench and timber work; heavy masonry, concrete, stone cutting and quarry, earth, rock, pipe, sewers, road construction. P. W. 368, Eng. News.

FOREMAN CONCRETE CONSTRUCTION wants position; seven years' experience on bridge work; six years with one firm; A1 references; Pennsylvania or New Jersey preferred. P. W. 362, Eng. News.

CONTRACTOR'S SUPERINTENDENT AND ESTIMATOR; eight years' experience in railroad and general building construction; available July 1. P. W. 359, Eng. News.

SUPERINTENDENT with 20 years' experience on bridge foundations, hydro-electric developments, locks and dams, docks, tunnel driving and lining, open for position June 20; have good following of foreman and mechanics. P. W. 349, Eng. News, Chicago.

SUPERINTENDENT of construction, practical experience in concrete buildings, manufacturing, filtration, sewage disposal plants, bridges, piers, track elevation, capable of handling large force of men and getting results erecting construction plants, age 36. P. W. 399, Eng. News.

WORKING SUPERINTENDENT or foreman of construction concreting excavating, farms building, pipe laying, erecting equipment, can handle anything in the line of construction; can get results from men and equipment; no boozer; on the job; what have you to offer? P. W. 400, Eng. News.

CARPENTER FOREMAN or general foreman of construction of carpenter and concrete work; experienced in building and miscellaneous contracting work. A-1 reference, location immaterial. P. W. 395, Eng. News.

DIPPER DREDGE CAPTAIN, 12 years' experience harbor-canal scow work; nothing but year around position considered, can give references. P. W. 390, Eng. News.

TECHNICAL GRADUATE, 25, wants position, estimator, assistant engineer or timekeeper; two years' experience. P W. 396, Eng. News.

STENOGRAPHER, eight years' engineer office experience; thorough knowledge Government contracts and specifications; understands drafting; double entry bookkeeper. Tryon, 17 Woodland Ave., Woodhaven, N. Y.

A GOOD OPPORTUNITY is offered firm of high standing to secure the services of a mechanical engineer who has been engaged for several years in designing and manufacturing a well known line of special goods used largely in structural work; he controls some valuable patents covering these goods and can furnish some capital; highest references and full particulars to principals who mean business. Address "Success," P. W. 327, Eng. News.

SUPERINTENDENT OF STREET PAVING; ten years' experience in Eastern cities and familiar with city hall affairs. P. W. 379, Eng. News.

SALES ENGINEER, technical man, 30; six years with firm consulting engineers in New York City; large acquaintance among manufacturers, consulting and industrial engineers, and mill architects in East; hustler and a man who can produce results; would like to represent manufacturer in East; have made good and can give best of references from past employers; if you want a live representative write at once. P. W. 384, Eng. News.

POSITIONS OPEN

MECHANICAL ENGINEER for position as chief draftsman, or estimating and designing engineer, of mechanical department, by large corporation located Northeast; must have experience on moveable bridges, electric cranes or similar work; give full particulars of education, experience, references and salary required. P. 352, Eng. News.

MECHANICAL ENGINEER, first-class; must be competent draftsman, and have knowledge of tool designing and machine-shop practice; state age, experience, references and salary expected. P. 346, Eng. News.

THE TOWN OF DARIEN, CONN., desires to secure the services of a highway commissioner. For further particulars address Board of Finance, Town of Darien, Conn.

SALESMAN wanted, a man of good habits and address, who has had experience selling portland cement in New York State, between Buffalo and New York; state experience, salary expected and particulars. P. 377, Eng. News.

Civil-Service Opportunities

Competitive examinations for the civil-service positions named below will be held on or up to the dates given. For detailed information, write the addresses specified.

CHIEF ENGINEER (male), $3000; examination June 23; for vacancy in the Public Utilities Commission; write to the State Civil Service Commission, Hartford, Conn.

SERVICE ENGINEER—During July, 1915, the Illinois State Civil Service Commission will hold an examination for service engineer under the Illinois Public Utilities Commission; open to male residents of Illinois over 25; salary $200 to $300 a month; duties include supervising routine service inspection of utility properties, special investigations as to service and preparation of orders in such cases; examination will be unassembled; applications must be on file by July 3, 1915. For application blanks and details address Illinois Civil Service Commission, Springfield, Ill.

TELEPHONE ENGINEER—During July, 1915, the Illinois State Civil Service Commission will hold an examination for telephone engineer under the Illinois Public Utilities Commission; open to male residents of Illinois over 25; salary $200 to $300 a month; duties include investigation of operating and rate making problems of telephone properties and preparation of orders in such cases; examination will be unassembled; applications must be on file by July 3, 1915. For application blanks and details address Illinois Civil Service Commission, Springfield, Ill.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

TECHNICAL and SCIENTIFIC TEACHERS, instructors and professors wanted for colleges and universities for next school year. If you desire first consideration and best results, file your application with our Educational Department now. H. H. Harrison & Co., 807 Association Bldg., Chicago.

LABOR BUREAUS

SPECIAL ADVANTAGES to contractors or others employing skilled or unskilled laborers. Commissary privileges optional. Central Labor Agency, 139 Mulberry St., New York. (Telephone 8970 Canal.)

LABORERS—Immigrants of any nationalities supplied at short notice at any part of the United States; camps and commissary runner; promptness and systems are our success. People's Labor Agency, 88 Baxter St., New York.

WANTED

AGENTS AND SALESMEN

ENGINEER OR DRAFTSMAN to sell WINSLOW direct-reading, beam and reinforced concrete calculating SLIDE-RULES. Simple, quick. Good opportunity for first agent in each city. Henry W. Tomlinson, 62 East Van Buren St., Chicago.

MISCELLANEOUS

THE SCALES OF THE GILSON SLIDE RULE are 1^0 in. long; results of computations can be read to four figures; price with complete instructions, 50c. The Gilson Slide Rule Co., Niles, Mich.

BUSINESS OPPORTUNITIES

WILL SELL TO ENGINEER as active working partner half interest in well-established and equipped consulting engineering business located in Central South; excellent opportunity for right man with $7,500 for interest and capital; give age, education and experience; young man preferred; don't write unless you mean business. B. O. 356, Eng. News, Chicago.

WANTED—To buy established engineering business; prefer Middle West; would consider partnership in good firm. B. O. 381, Eng. News, Chicago.

THE CO-OPERATION of an enterprising and responsible contracting company is desired in the development and use of about one hundred thousand acres of fertile land in Louisiana, suitable for stock raising and general agriculture. Owners able to make very advantageous terms. Full particulars will be furnished to responsible parties. B. O. 402, Eng. News, Chicago.

REINFORCED CONCRETE ENGINEERS
and **STRUCTURAL STEEL DESIGNERS**

who are competent to do the work in these branches of engineering are always **WANTED.** A correspondence course of instruction, prepared and operated by a well-known Consulting Engineer (after many years' experience in these special branches of engineering) will fit you to find employment in the kind of engineering work that knows no "dull times." These courses provide "*actual experience.*"

Address W. 374 Engineering News

WANTED
SOMETHING TO MANUFACTURE

I have a Machine Shop and Foundry located in center of coal, iron and lumber districts, well equipped, well organized from manufacturing to selling end. Responsibility all right—I want one or two perfected mechanical articles to manufacture and sell. Send cuts and full information.

G. H. PATTEN, 1901 Pine St., St. Louis, Mo.

For Sale
Second Hand Equipment

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

Equipment Wanted items appear at the end of this list.

N

ADVERTISERS' NAMES are abbreviated in most of these items. Complete names and addresses are as follows:

BRADEN, James C., 26 Cortlandt St., N. Y. City.
CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW Co., Wm. B., 688 Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
LANE BROS., Ltd., Box 154, St. Catharines, Ontario—All the equipment advertised was bought new and used less than two years. Located at Rochester, N. Y. Prices and details on application.
LANE, Thomas J., 240 Bushnell Bldg., Springfield, Ohio.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal & Supply Co., 167 South St., N. Y. City.
MICHELIN Tire Co., Milltown, N. J.
NEW RIVER Co., The, Macdonald, W. Va.
PEIRCE-Schmidt Co., Inc., 704 Bulletin Bldg., Phila., Pa.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
ROBERTS Filter Mfg. Co., Inc., Darby, Pa.
RUGGLES-Robinson Co., 331 Madison Ave., New York, N. Y.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SCHOLL Co., Julian, 126 Liberty St., New York, N. Y.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.

STALLEY, G. T., Box 390, Cleveland, Ohio.
TITAN Equipment Co., 30 Church St., N. Y. (Cort. 1111.)
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—Ingersoll-Rand H-3, 1000 Cu. Ft. Compound Steam Compound.—SAMPSON.

1—WB-2 Sullivan 909 Cu. Ft. Tandem Steam Driven Compound.—SAMPSON.

1—Rand Class "C" 527 Cu. Ft. and 2—Rand Class "C" 98 cu. ft. straight Line steam Driven.—SAMPSON.

1—Imperial XB-2, 1212 Cu. Ft. and 1—Imperial XB-2, 1190 Cu. Ft. Compound Belt Driven.—SAMPSON.

1—Ingersoll-Sergeant Class "E-1" 236 Cu. Ft. Belt Driven. —SAMPSON.

1—Blake 389 Cu. Ft. Duplex Steam Comp.; 1—Ing.-Serg. Class "F" 233 Cu. Ft. Straight Line Steam Driven.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

American 10x10x10 straight line, steam driven, cap. 236 cu.ft.; Ingersoll-Rand 8x8x8 straight line, steam driven, cap. 100 cu.ft.; Clayton 8x8x7 duplex, cap. 150 cu.ft.—MARINE.

1 Westinghouse 100 cu.ft. motor driven with governor to automatically regulate the air pressure; in good condition; reason for selling, too small.—MICHELIN.

3—24"x24"x30" S. L. Rand steam driven, $1000 each.—L. F. SEYFERT'S SONS, INC., 437 N. 3rd St., Phila., Pa.

BELT CONVEYORS

1—14" and 1—16" 50' centers.—GIVIN.

BLOCKS, GRANITE

About 25,000, splendid condition.—F. S. 385, Eng. News.

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 50, 60 and 80 H.P. locomotive boilers.—PIPE.

4—125 H.P. and 2—150 H.P. Horizontal return tubulars, butt strapped, triple riveted.—MARINE.

BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

Hayward 1⅝ yd., Mead & Morrison 1½ yd., Smith 1 yd. and Union Iron Works ¾ yd. clam shells; Hayward 7 cu.ft. orange peel; 10—Steubner 1¼ yd. "Excelsior" bottom dump concrete.—MARINE.

CARS

[Standard Gauge]

10—16 yd. stl. K. & J. air dump; 1 Oliver spdr.—LANE BROS.

[36" Gauge]

40 Western 4 yd. dump, $2000 each.—F. S. 333, Eng. News.

[24" Gauge]

10—1 yd. swivel end dump cars.—PIPE.

12 Koppel 1¼ yd., steel V shape.—GRIMSHAW.

CARTS

4—1 yd. steel narrow gauge dump; also steel concrete carts, etc.—ROBERTS.

CRUSHERS

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 Climax Portable plant complete, A1.—GIVIN.

Gates No. 5, style K, with elevator & screen.—GRIMSHAW.

DERRICKS

1 steel stiff leg 70 ft. boom with cast steel bull wheel, capacity 25 tons.—MARINE.

125' boom, 35 ton cap. steel stiff leg with bull wheel, 4-section boom; removal mid-section adds capacity. Mast 75', sills 58', stiff legs spread 68'. High grade for yard or erecting work. Quick sale price.—TITAN.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

ENGINES, GAS

1 8 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON

EXCAVATORS

½ cu.yd. and up. Traction. Ideal for cellars, trenching, grading.—TITAN.

GENERATORS

Western Electric 100 K.W. dir, con. to 14x14 engine, 240 volts; 2 Western Electric 60 K.W. belt, 125 volts.—MARINE.

FIRE ENGINES

2 Fire Engines, condition, first class.—HITNER'S.

HAMMERS

1 No. 4 Arnott.—PIPE.

HOISTING ENGINES

2—3 drum Nationals, one 10x12 and one 8¼x10, with boilers; Lambert 8½x10 D.D.D.C. Skeleton; 7½x10 D.D.D.C. Skeleton, 15 other makes and sizes.—MARINE.

6 Lidgerwoods—4—7x10 D.C. D.D. with boilers; 1—7x10 D.C. D.D. skeleton with swinger; 1—6¼x8 skeleton.—PIPE.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

THREE HUNDRED hoists, 2 or 3 drum 7x10, 8¾x10, 9x10, 10x12, skeleton or boilers; 100 electric.—HOISTING.

INSTRUMENTS, SURVEYING

Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

$190 Sala Lt. Mt. transit V circle, good cond., $115; $100 Buff & B. Engrs. Dumpy level, inverting, fine, $70. Guaranteed. 99 others. Rentals, repairs, supplies.—ARCHITECTS' & ENGINEERS' SUPPLY CO., Kansas City, Mo.

LOCOMOTIVES

[Standard Gauge]

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

40-ton Climax geared, rebuilt; like new.—DALLETT.

2—40 ton saddle tank American.—LANE BROS.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

1—10x16 Vulcan in good order; 2—10x16 American, excellent condition.—PEIRCE.

6x10, 7x12, 9x14, 10x16, 11x16", all makes.—GRIMSHAW.

LOCOMOTIVE CRANES

4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

1—7 Ton, 4 wheel, Industrial, 21' boom; 1—15 ton, 8-wheel Industrial, wrecking crane, 20' boom, goose neck.—HITNER'S

15 ton excellent condition, cheap.—STALLEY.

4 and 8 wheel, 10, 15, 20 and 25 tons capacity.—GIVIN.

1—10 ton 4 wheel Brown hoist, A1 condition; low price for quick sale.—GIVIN.

1—45 ft. 4-wheel Industrial.—WHITNEY.

4 or 8 wheel 5 to 40 ton capacities.—TITAN.

MIXERS (Asphalt and Concrete)

Hadsel 2 yd. Batch with engine; Ransome ¾ yd. with engine and hopper; Foote Continuous No. 2½, 7½ H.P. motor, D.C. on wheels.—MARINE.

Portable plant, complete capacity 300-600 yds. per day: rare bargain.—LINES FLYNN.

1 Eureka continuous 3 H.P. D.C. motor; 2 Austin cubes with engines and boilers on steel skids; 2½ Smith with engine on wheels; 1 yd. and ½ yd. Ransomes on skids.—PIPE.

Standard, ½ yd., gasoline engine.—DALLETT.

1 yd. Smith concrete, engine, boiler, elevator.—ROBERTS.

MOTORS

1—50 H.P. General Electric motor.—LANE BROS.

15 H.P. Westinghouse 24 volt d.c. motor.—RUGGLES.

PILE-DRIVING PLANT

Consisting of one floating pile driving machine, 2 for land work and all necessary equipment to operate same. All in good condition.—HUGH HART, 150 Pearsall St., L. I. City, N. Y.

PILING, SHEET STEEL

5000 pcs. Carnegie, Lackawanna, Wemlinger.—GRIMSHAW.

165 pcs. Lackawanna 14" arch web, 22 and 24 ft. lengths, used once, excellent condition.—37 Dun Bldg., Buffalo, N. Y.

PIPE

Wrought with new threads and couplings, all sizes.—PIPE.

300,000 rethreaded wrought, sizes ¾" to 24".—MARINE.

PUMPS

1 Cameron 3½x2x4 Steam pump.—SAMPSON.

Piston and plunger, sizes up to 12x12x12.—NEW RIVER.

1 Compound duplex vertical center packed plunger, circulating pump, size 21—34x19—24, capacity 3500 gallons, 24 hours.—HITNER'S.

2 Emerson steam pumps No. 4; 1 Cameron 10x10½x20 and other sizes.—PIPE.

RAILS

40 ton of 35 lb. with fish plates.—PIPE.

ROAD BUILDING OUTFIT

Cheap for Cash—Complete crushing outfit, including new steam drills; also 8-ton gasoline road roller & grader which, if desired, will be sold independently of crushing outfit. All located at or near Loudon, Tenn. For full information address H. L. Kay Construction Co., James Bldg., Chattanooga, Tenn.

ROAD ROLLERS

2—10 ton Buffalo Pitts, practically new.—GIVIN.

1—8 ton Iroquois, used two months.—GIVIN.

2—5 ton Iroquois, perfect condition.—GIVIN.

1—10 ton Iroquois 3-wheel tandem; cheap before removal. —L. F. SEYFERT'S SONS, INC., 437 N. 3d St., Phila., Pa.

5-ton Buffalo-Pitts tandem steam, A1 order. For further particulars apply WILLIAM MEARS, Rumson, N. J.

5-ton Iroquois, overhauled, $750.—GRIMSHAW.

5—6 ton tandem steam roller.—SCHOLL.

1 macadam roller, standard make, recently overhauled.—F. S. 386, Eng. News.

SEWER PLANTS

2—Complete Sewer Contractor's Plants, including compressors and locks.—LINES FLYNN.

STEAM SHOVELS

Marion, model 60, steam shovel.—SOUTHERN.

1 ¾-yd. revolving traction, rebuilt.—LINES FLYNN.

1 70-ton Bucyrus, 2½ yd. dipper; Thew "O."—BRADEN.

2—65 ton, Bucyrus, 2½ Yd. dippers, $3000 each.—HITNER'S.

50 steam shovels, all makes and sizes; some used only two months; rent or sale. Rare bargains. Everything sold is guaranteed.—CONTRACTORS S. CO.

18-B Bucyrus traction, used few weeks; Type "O" Thew traction, Mass. boiler, prime condition.—DALLETT.

1 Model 0 Thew, built 1912, low price.—GIVIN.

1—14B Bucyrus traction revolving ⅝ yd.—GIVIN.

1—90 ton Marion Model 75, Shop No. 2194, rebuilt and fitted throughout with steel cut gears.—LANE BROS.

Several Thew, Bucyrus, Marion Osgood traction.—PEIRCE.

Model 40 Marion, traction and standard trucks and Model A Marion, standard trucks.—LANE.

TRENCHING MACHINES

One No. 1 Austin, good shape and a bargain. BOYD & COOK, 1018 Reibold Bldg., Dayton, Ohio.

Potter drag bucket conveyor trench machine.—LANE.

WELL DRILLING MACHINES

2 Keystone well drills, in splendid condition.—PEIRCE.

Wanted

1 tandem paving roller; price must be right. Send information to W. 387, Eng. News.

First-class 15-20 ton 8-wheel loco. crane.—W. 305, Eng. News.

12 H.P. gasoline engine suited to driving a ¾ yd. Ransome mixer.—RUGGLES.

3-drum hoisting outfit, double cylinder, 9x12 or 10x12, without boiler, in good condition. Give full particulars as to condition, price and where it can be inspected. Reply GEO. BLYTH, care Kellogg & Miller, Amsterdam, N. Y.

CABLEWAY FOR SALE

Flory 7 x 10 D.C. D.D. engine with reverse link motion and wood burning boiler; cables, 1,125 ft. 1¼ in. C.C.S; 1,100 ft. 9/16 in. C.C.C. hoisting line; 2,000 ft. 9/16 in. C.C.S. endless line and 500 ft. ¾ in A-frame galvanized guys. One 4 wheel cable carriage, two iron tip buckets, 1 cu.yd. capacity, two sets anchorages. All necessary sheaves, shafts, boxes, chain connections, clips, bolts, washers, etc. Three months light use; in good condition. Apply to

E. J. French or Robert Barrett, Cornish, N. H.

FOR SALE

Air Compressors	Electric Locomotives	Pipe
Blowers and Fans	Elevators	Pumps
Boilers	Elevator Engines	Oil Separators
Buckets	Engines	Rails
Cars	Feed Water Heaters	Steel Pontoon
Derricks	Generators	Turn Tables
Drills	Grout Machines	Valves and Fittings
	Machine Tools	

Harold Carpenter, Resident Engineer, Astoria Light, Heat & Power Co., East 132nd St. and Locust Ave., New York City.

WESTERN

Earth and Stone Handling Machinery

Air Dump Cars—Hand Dump Cars—Spreader Cars—Scrapers—Road Machinery—Portable Rock Crushers—Dump Wagons—Elevating Graders. Wagon Loaders and Ditchers. **Glad to send Catalogs.**

Western Wheeled Scraper Co., Farnsworth Ave. Aurora, Ill.

CONTRACTING ENGINEERS

STEEL AND MASONRY CONSTRUCTION
PIERS AND SHEDS COALING PLANTS

Cable Address, Santee New York. Cable Address, Pawnee Havana. Western Union & Lieber Codes Used. Havana Office, Zulueta 36 D.

THE SNARE AND TRIEST COMPANY
Woolworth Building, 233 Broadway New York

PITTSBURGH FILTER MFG. CO.

PITTSBURGH, PA.

Contractors for Municipal and Industrial Filters, Water Softeners and Sewage Disposal Plants

Licensed Under Fundamental Negative Head Patents

Large Manufacturing Company

with exceptional facilities for manufacturing heavy and light sheet metal work

Desires Additional Line

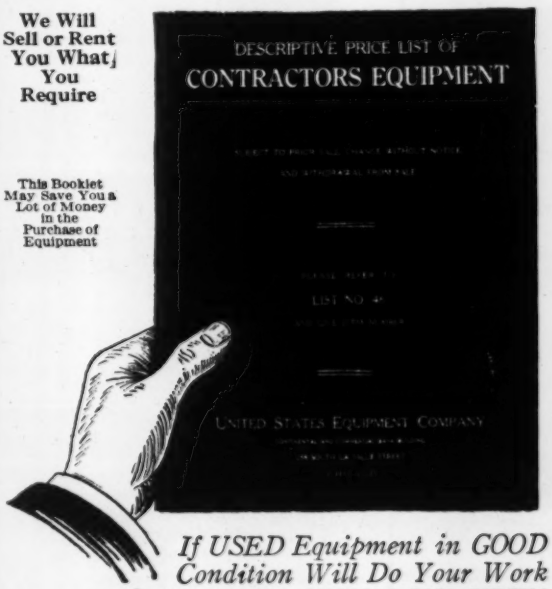
that will be required in large quantities. Willing to equip special factory if necessary.

ONLY GILT EDGE PROPOSITIONS WILL BE CONSIDERED

W. 376 Engineering News

We Will Sell or Rent You What You Require

This Booklet May Save You a Lot of Money in the Purchase of Equipment



If USED Equipment in GOOD Condition Will Do Your Work Satisfactorily, WHY BUY NEW?

WRITE FOR THE PRICE LIST DESCRIBING:

Locomotives	Cableways	Drills
Steam Shovels	Concrete Buckets	Hoisting Engines
Dump Cars	Skips	Pile Hammers
Air Compressors	Concrete Mixers	Pumps
Boilers	Rock Crushers	Etc., Etc.

Orange Peel and Clam Shell Buckets

United States Equipment Company
208 South La Salle St., CHICAGO, ILL.

Meriwether System

Lock Joint Concrete Pipe

Lay it with your Digging Machine. We don't sell excavating machines *but we do sell a pipe that makes your machinery a better investment.*

The photo shows the laying of 39" pipe at Cincinnati.

Lock Joint Pipe Company

165 Broadway, New York City

The Canadian Lock Joint Pipe Co., Limited, Regina, Sask., Can. Pacific Lock Joint Pipe Co., Tacoma, Seattle, Wash.

Made in your own city. Keep your money at home.

GRAVITY and PRESSURE FILTERS

Hypochlorite Apparatus and Water Softening Plants.

LICENSEES
Pittsburgh Filter Mfg. Co.
Norwood Engineering Co.
Roberts Filter Mfg. Co.

THE NEW YORK CONTINENTAL JEWELL FILTRATION COMPANY

111 Monroe St., CHICAGO. Owners of the NEGATIVE HEAD FILTER PATENTS 15 Broad St., NEW YORK

Cast Iron Pipe

Bell and Spigot—Flange

For 58 years we have been manufacturing the highest quality cast iron pipe and special fittings.

Send us your orders. Our large stock, always on hand, guarantees prompt shipment. Write.

Warren Foundry and Machine Co.

Sales Office: 11 Broadway, New York
Works: Phillipsburg, N. J.
New England Sales Agency: F. A. Houdlette & Son, 93 Broad St., Boston, Mass.

NATIONAL **"NATIONAL" Pipe**

The Consumer's Guarantee of Quality—Ask for "National" Bulletin No. 11, "History, Characteristics and The Advantages of 'National' Pipe."

NATIONAL TUBE COMPANY, PITTSBURGH, PA.

American Pipe and Construction Co.

Water Works Engineers and Contractors

112 North Broad Street, Philadelphia

Also Manufacture

Welded Wrought Iron Pipe, Lined and Covered with Pure Cement and Having Lead Caulked Bell and Spigot Joints

The only noncorrosive pipe on the market good for any pressure.

STANDARD

Cast Iron Bell and Spigot and Flange
PIPE FOR WATER AND GAS

Standard Fittings Heavy General Foundry and Machine Shop Work

STANDARD CAST IRON PIPE & FOUNDRY CO.

On Delaware River Bristol, Penna.

Nicholas Engel

JOHN FOX & CO.

Cast-Iron Water, Gas and Flange Pipe, Special Castings, Fire Hydrants, Valves, General Foundry and Machine Work.

253 BROADWAY NEW YORK CITY